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ADBABOTULE for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 2

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Application Number	10/827,148	
Filing Date	April 19, 2004	
First Named Inventor	James F. Stevens	
Art Unit	1764	
Examiner Name	Matthew Merkling	
Attorney Docket Number	X-0169	7

			U.S. PATENT D	OCUMENTS	
Examiner	Cite	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant
Initials • No.1		Number • Kind Code ² (if known)	MM-DD-YYYY	Cited Document	Passages or Relevant Figures Appear
/MJM/ AA US		US-2002-0085967 A1	7/4/2002	Yokata	
i	AB	US-2002-0110503 A1	8/15/2002	Gittleman et al.	
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V	ADD	US-6,685,821 B2	2/3/2004	Kosek et al.	
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Examiner /Matthew Merkling/	Date Considered	09/07/2007
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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. *Applicant's unique citation designation number (optional). *See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. *Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). *For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. *Applicant is to place a check mark here if English language Translation is attached.

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Substitute	for form 1449B/PTC)		Complete if Known		
INFORMATION DISCLOSURE		Application Number	10/827,148			
				Filing Date	April 19, 2004	
STAT	STATEMENT BY APPLICANT		First Named Inventor	James F. Stevens		
				Art Unit	1764	
(Use as many sheets as necessary)		Examiner Name	Matthew Merkling			
Sheet	2	of	2	Attorney Docket Number	X-0169	

	FOREIGN PATENT DOCUMENTS								
Examiner	Cite	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines, Where Relevant				
Initiales No.3	Country Code ³ - Number ⁴ - Kind Code ⁵ (<i>if known</i>)	Date MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear	T°				
/MJM/	BA	EP 1,187,688 (WO 00/76829)	3/20/2002	Connor et al.					
$\overline{}$	ВВ	JP 2000-273472	10/3/2000	Tatsuo et al.					
_	ВС	JP 2002-208425	7/26/2002	Yukitaka et al.					

		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of	
Examiner nitials *	Cite No. ¹	the item (book, magazine, journal, serial, symposlum, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	т;
/MJM/ CA		Alpay et al., "Combined Reaction and Separation in Pressure Swing Processes," Chemical Engineering Science, Vol. 49, No. 24B, pp 5845-5864	
	СВ	Berty et al., "Beat the equilibrium," Chemtech, October 1990, pp 624-629	
	сс	Carvill et al., "Sorption-enhanced reaction process," AIChE Journal, Oct. 1998, Vol. 42, No. 10, pp 2765-2772	
	CD	Han et al., "Simultaneous shift reaction and carbon dioxide separation for the direct production of hydrogen," Chemical Engineering Science, Vol. 49, No. 24B, pp 5875-5883 (1995)	
	CE	Hufton et al., "Sorption-enhanced reaction process for hydrogen production," AIChE Journal, Feb. 1999, Vol. 45, No. 2, pp 248-256	
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	cG	Lin et al., "Hydrogen production from hydrocarbon by integration of water-carbon reaction and carbon dioxide removal (HyPr-RING Method)," <i>Energy and Fuels</i> , 2001, Vol. 15, pp 339-343	
	СН	Rizeq et al., "Fuel-flexible gasification-combustion technology for production of H ₂ and sequestration-ready CO ₂ ." Annual Technical Progress Report 2002, October 2002, DOE Award No. DE-FC28-00FT40974, General Electric and Environmental Research Corporation	
$\overline{\Psi}$	ÇI	Silaban et al., "High temperature capture of carbon dioxide: characteristics of the reversible reaction between CaO(s) and CO ₂ (g)," Chem. Eng. Comm., 1995, Vol. 137, pp 177-190	

Examiner Signature	/Matthew Merkling/	Date Considered	09/07/2007

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	Sheet	1	of	2	Attorney Docket Number	X-0169	

			U.S. PATENT I	DOCUMENTS	
niner als	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Releva Passages or Relevant Figures Appear
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the appropriate symbols as indicated on the document under WIPO Standard S1. 10 if possible. Applicant is to pace a dear maintenance of Translation is attached.

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Substitute	o for form 1449	9B/PTO			Complete if Known
MICO	DALATI	ON DIG	OLOGUET	Application Number	10/827,148
			CLOSURE	Filing Date	April 19, 2004
STAT	TEMEN	T BY A	PPLICANT	First Named Inventor	James F. Stevens
				Art Unit	1764
	(Use as ma	ny sheets as	necessary)	Examiner Name	Matthew Merkling
Sheet	2	of	2	Attorney Docket Number	X-0169

		FOREIGN PA	ATENT DOCU	MENTS		
Examiner Cite No.1	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines, Where Relevant		
	Country Code ³ - Number ⁴ - Kind Code ⁵ (# known)	Date MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear	T⁰	
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		NON PATENT LITERATURE DOCUMENTS		
Examiner Initials *				
/MJM/	ಒ	Balasubramanian, et al., "Hydrogen from Methane in a Single-Step Process," Chemical Engineering Science, Vol. 54, No. , pp 3543-3552 (1999)		
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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Application Number 10/827,148 April 19, 2004 Filing Date First Named Inventor Stevens, James F.

1764

Matthew Merkling Examiner Name

X-0169 Attorney Docket Number

			U.S. PATENT		
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Substitute for form 1449B/PTO Complete if Known 10/827,148 Application Number INFORMATION DISCLOSURE Filing Date April 19, 2004 STATEMENT BY APPLICANT First Named Inventor Stevens, James F. 1764 Art Unit (Use as many sheets as necessary) Matthew Merkling Examiner Name of 2 Attorney Docket Number X-0169 Sheet

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
/MJM/	СК	DING et al., Adsorption-enhanced steam-methane reforming, Chemical Engineering Science, 55 (2000), Issue 18, pp. 3929-2940	
/MJM/	CL	XIU et al., New generalized strategy for improving sorption-enhanced reaction process, Chemical Engineering Science, 58 (2003), Issue 15, pp. 3425-3437	
/MJM/	СМ	WALDRON et al., Production of Hydrogen by cyclic sorption enhanced reaction process, A.I.Ch.E. Journal, Vol. 47, No. 8, pp. 1477-1479 (June 2001)	
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